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## HY2 FAMILY OF BILIN REDUCTASES

### ABSTRACT OF THE DISCLOSURE

This invention identifies a novel family of bilin reductases. Designated herein HY bilin reductases, the enzymes of this invention are useful in a wide variety of contexts including but not limited to the conversion of biliverdins to phytobilins and the 10 assembly of holophytochromes or phytofluors.

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